

ABSTRACT

A cell disposal avoidance system is provided that can avoid disposal of cells resided in the QoS buffer when a traffic of a specific QoS class in an ATM switch increases. The ATM switch includes a storage cell number monitor, a software data section 813, and a software controller 812. The storage cell number monitor monitors congestion of plural QoS buffers in the buffer 3, 5. The software data section 813 stores a cell reading priority (WRR value) attached for each QoS buffer. The software controller 812 dynamically changes the WRR value when congestion of a QoS buffer is in a congestion state (at generation of cell disposal or buffer congestion alarm) and increases the WRR value of the QoS buffer in a cell disposal state. Cells are divided in a time division mode according to the weight of the WRR value and read in a round format from the QoS buffer. The ATM switch resets the WRR value to an initial value when the congestion of the QoS buffer ceases.